

IMPROVED RECEIVER SENSITIVITY FOR TRANSCEIVER HAVING
DIVERSITY ARCHITECTURE

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ABSTRACT OF THE DISCLOSURE

A communications transceiver incorporating diversity architecture for utilization with a wireless communications network and having improved receiver sensitivity is disclosed. In a first embodiment of the invention, the communications transceiver comprises a pair of antennas 10 connected to a pair of amplifiers and a selector connected between the amplifiers and the intermediate frequency stage of the transceiver for providing selective operation of the communications transceiver with either antenna of the pair of antennas. In a second embodiment of the invention, the communications transceiver comprises a pair of antennas, 15 a pair of amplifiers and a selector disposed between the first amplifier and the intermediate frequency stage of the transceiver and between the second antenna and the second amplifier for providing selective operation of the communications transceiver with either of the antennas. The architecture of the communications transceiver of the present 20 invention provides improved receiver selectivity, improved noise figure, improved signal-to-noise ration, and improved power output.

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